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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/013796

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01L41/083, 41/09, 41/22, F02M51/00, 51/06, H02N2/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L41/083, 41/09, 41/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-342062 A (Kyocera Corp.), 11 December, 2001 (11.12.01), Page 3, left column, line 33 to page 6, right column, line 36; Fig. 1 (Family: none)	12-19, 29
A	JP 5-194016 A (Murata Mfg. Co., Ltd.), 03 August, 1993 (03.08.93), Page 2, left column, line 37 to right column, line 41; Fig. 1 (Family: none)	1-6
A	JP 6-100364 A (Ohara Inc.), 12 April, 1994 (12.04.94), Page 2, right column, line 21 to page 3, right column, last line (Family: none)	7-11



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
22 November, 2004 (2.11.04)

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07 December, 2004 (07.12.04)

Name and mailing address of the ISA/

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-197991 A (Kyocera Corp.), 11 July, 2003 (11.07.03), Page 3, left column, line 34 to page 4, right column, line 40; Fig. 1 (Family: none)	20-28